

IN THE CLAIMS:

Please cancel claims 1-3, 5-12, 15-17 and 19-26 without prejudice and add new claims 27-48.

Claims 1-12 (Canceled).

Claims 13-14 (Withdrawn).

Claims 15-26 (Canceled).]

Please add new 27-48 claims as follows:

27. (New) A product ejecting apparatus for an injection molding machine, said apparatus comprising:

a first drive unit;

a second drive unit;

a first transmission unit connected to said first drive unit, rotatably and reciprocatably disposed, wherein operating of said first drive unit results in a rotation of said first transmission unit and operating of said second drive unit results in a reciprocating movement of said first transmission unit;

a second transmission unit rotatably and reciprocatably disposed, connected to said second drive unit, wherein operating of said second drive unit results in a rotation of said second transmission unit and operating of said first drive unit results in a reciprocating movement of said second transmission unit;

an ejector pin configured to reciprocate based upon a motion of said first transmission unit; and

a working member connected to said second transmission unit, wherein a movement of said second transmission unit results in reciprocating movement of said working member; wherein

said first and second transmission units comprise a motion conversion unit which converts rotational motion of one of the transmission units to linear motion of the other transmission unit.

28. (New) A product ejecting apparatus as recited in claim 27, wherein said first transmission unit and said first drive unit are configured such that a rotation of said first drive unit results in rotation and reciprocation of said first transmission unit.

29. (New) A product ejecting apparatus as recited in claim 28, wherein said second transmission unit is configured such that a rotation of said second drive unit results in rotation and reciprocation of said second transmission unit.

30. (New) A product ejecting apparatus as recited in claim 27, wherein a reciprocating movement of said ejector pin and a reciprocating movement of said working member are in a same direction.

31. (New) A product ejecting apparatus as recited in claim 27, further comprising a movement restriction unit for restricting axial movement of the first transmission unit.

32. (New) A product ejecting apparatus as recited in claim 31, wherein said movement restricting unit comprises a stopper.

33. (New) A product ejecting apparatus as recited in claim 27, further comprising a movement restricting unit for restricting axial movement of said second transmission unit.

34. (New) A product ejecting apparatus as recited in claim 33, wherein said movement restricting unit comprises brakes.

35. (New) A product ejecting apparatus as recited in claim 33, wherein said movement restricting unit comprises at least one spring.

36. (New) A product ejecting apparatus as recited in claim 27, further comprising:

a first drive control unit for controlling said first drive unit; and

a second drive control unit for controlling said second drive unit,

wherein said first drive control unit and said second drive control unit are configured such that when said first drive control unit drives said first drive unit, said second drive unit is maintained in a fixed rotational position.

37. (New) A product ejecting apparatus as recited in claim 36, wherein said first drive control unit and said second drive control unit are configured such that when said second drive control unit drives said second drive unit, said first drive unit is maintained in a fixed rotational position.

38. (New) A product ejecting apparatus, said apparatus comprising:

a first drive means for providing drive power for an injection molding machine;

a second drive means for providing drive power:

a first transmission means rotatably and reciprocatably disposed, wherein operating of said first drive means results in a rotation of said first transmission means and operating of said second drive means results in a reciprocating movement of said first transmission means, said first transmission means for transmitting power from said first drive means;

a second transmission means rotatably and reciprocatably disposed, wherein operating of said second drive means results in a rotation of said second transmission means and operating of said first drive means results in a reciprocating movement of said second transmission unit;

ejection means configured to reciprocate based upon a motion of said first transmission means; and

a working member connected to said second transmission means, wherein movement of said second transmission means results in reciprocating movement of said working member; wherein

said first and second transmission means comprise motion conversion means for converting motion of one of the transmission means to linear motion of the other transmission means.

39. (New) A product ejecting apparatus as recited in claim 38, wherein said first transmission means and said first drive means are configured such that a rotation of said first drive means results in rotation and reciprocation of said first transmission means.

40. (New) A product ejecting apparatus as recited in claim 39, wherein said second transmission means is configured such that a rotation of said second drive means results in rotation and reciprocation of said second transmission means.

41. (New) A product ejecting apparatus as recited in claim 38, wherein a reciprocating movement of said ejection means and a reciprocating movement of said working member are in a same direction.

42. (New) A product ejecting apparatus as recited in claim 38, further comprising movement restriction means for restricting axial movement of the first transmission means.

43. (New) A product ejecting apparatus as recited in claim 42, wherein said movement restricting means comprises stopper means for stopping movement of said first transmission means.

44. (New) A product ejecting apparatus as recited in claim 38, further comprising movement restricting means for restricting axial movement of said second transmission means.

45. (New) A product ejecting apparatus as recited in claim 44, wherein said movement restricting means comprises brake means for restricting movement of said second transmission means.

46. (New) A product ejecting apparatus as recited in claim 44, wherein said movement restricting means comprises spring means for restricting movement of said second transmission means.

47. (New) A product ejecting apparatus as recited in claim 38, further comprising:

first drive control means for controlling said first drive means; and

second drive control means for controlling said second drive means,

wherein said first drive control means and said second drive control means are configured such that when said first drive control means drives said first drive means, said second drive means is maintained in a fixed rotational position.

48. (New) A product ejecting apparatus as recited in claim 47, wherein said first drive control means and said second drive control means are configured such that when said second drive control means drives said second drive means, said first drive means is maintained in a fixed rotational position.